Monday - May 3rd

Open Sessions

	8:00 AM	8:30 AM	9:00 AM			10:00 AM	10:30 AM	11:00 AM	11:30 AM
Session 6:I nnovations in Pulping & Bleaching	Arthur J. Ragauskas and Hasan Jameel (NCSU) Institute of Paper Science and Technology Improving Bleached Kraft Pulp Production via Integrated Kraft Pulping and O-Delignification Technologies	Lucian A. Lucia Institute of Paper Science and Technology Oxygen Delignification Catalysts: A Search for the Holy Grail	Rajai Atalla University of Wisconsin Polyoxometalate Based Delignification: New Bleaching and Pulping Technologies	***9:45 AM - 10:00 AM BREAK***	**Session 16:R ecovery Boiler Optimization**	Diane Chinn / Michael Quarry Lawrence Livermore National Laboratory Guided Acoustic Wave Monitoring of Corrosion and Erosiion in Recovery Boiler Tubing	Larry Baxter Brigham Young University Improved Recovery Boiler Performance Through Control of Combustion, Sulfur, and Alkali Chemistry	Christopher Shaddix Institute of Paper Science and Technology Progress in Understanding ISP Particle Chracteristics and Sources in Recovery Boilers	
					Session 17:I mproved Raw Materials	Vincent L. Chiang North Carolina State University Genetic Engineering of Syringyl Lignin in Spruce	Chung-Jui Tsai Michigan Technology University Genetic Augmentation of Syringyl Lignin in Low-lignin Aspen Trees	Amy Brunner or Steve Strauss Oregon State University Development and Validations of Sterility Systems for Trees	
					Session 18:Advances i n Wood Curing & Drying	W. L. Griffith Oak Ridge National Laboratory Resin Systems for Wood Composites Rapidly E-Beam Cured at Lower Temperatures	Arthur Ragauskas Institute of Paper Science and Technology Enhanced Composite Board Curing and Performance	A.L. Compere Oak Ridge National Laboratory Microwave pretreatment to decrease hardwood drying time and energy	William W. Moschler or Greg Hanson (ORNL) University of Tennessee Wireless Microwave Wood Moisture Measurement System for Wood Drying Kilns

TAPPI Sessions

Session 4-1	Session 4-2	Session 4-3	Session 7-2	Session 8-4
Sujit Banerjee Institute of Paper Science and Technology HAPs Generation and Removal	David W. mazyck, Ph. D. University of Florida TiO2-Coated Carbon for the Removal of VOCs	Sujit Banerjee Institute of Paper Science and Technology Use of Ash in HAPs Removal	Vijay K. Mathur G. R. International, Inc. Novel Silicate Fibrous Fillers and Their Application in Paper	Steve Choi Argonne National Laboratory Multiport Cylinder Dryers

Tuesday - May 4th

Open Sessions

	8:00 AM	8:30 AM	9:00 AM	9:30 AM		10:30 AM	11:00 AM	11:30 AM
Session 30:C hemical Recovery Optimization	Christoper Shaddix Sandia National Laboratory Laser Measurements of Entrained Particles in Recovery Boilers	Jim Keiser Oak Ridge National Laboratory Current Understanding of Cracking of Recovery Boiler Primary Air Port Composite Tubes	Christopher L. Verril Institute of Paper Science and Technology High Performance Evaporators: A Summary of Findings, Potential Applications, and Reserarch Needs to Reduce or Eliminate Soluble Scale Fouling in High Solids Black Liquor Concentrators	John H. Cameron Western Michigan University Use of Borate Autocausticizing to Supplement Lime Kiln and Causticizing Capacities	***10:00 AM - 10:30AM BREAK***	**Session 42:Enabl ing Technologies for Black Liquor Gasification** Pradeep K. Agrawal Georgia Institute of Technology Catalytic Reforming of Tars Formed During Black Liquor/ Biomass Gasification	Jim Keiser Oak Ridge National Laboratory Selection and Development of Refractory Structural Materials for Black Liquor Gasification	Jim Keiser Oak Ridge National Laboratory Selection of Materials for Low Temperature Black Liquor Gasification
Session 31:I mproved Raw Material Supply	T. J. "Tim" Mullin North Carolina State University Tracking Down the Effects of a Rare Mutant Gene in Loblolly Pine - A First Report	Bailian Li North Carolina State University Search for Major Genes to Improve Productivity and Rust Resistance of Loblolly Pine	Bailian Li North Carolina State University Genetic Variation and Genotype by Envirnoment Interaction of Juvenile Wood Properties in Loblolly Pine	Ron Sederoff North Carolina State University Correlation of Gene Expression in Differentiating Xylem and Specific Wood Propertiesin Loblolly Pine				
Session 32:Paper making & Converting	Shri Ramaswamy University of Minnesota Characterization of 3D Structure of Porous Materials and Their Application in Product Design and Development	Yaroslav Chudnovsky Gas Technology Institute Innovative Gas-Fired Technology for Paper Drying	Michael Schaepe Institute of Paper Science and Technology Lateral Corrugating: An Improved Method of Manufacturing Corrugated Boxes					

TAPPI (Open) Sessions

Session 21-1

Cyrus Aidun
Georgia Institute of Technology

On-Line Fluidics Controlled Headbox

Session 21-4

Cyrus Aidun
Georgia Institute of Technology

Acoustic Foils for Enhanced Dewatering and Formation

Session 35-1

Paul Ridgway and/or Rick Russo, & Emmanuel Lafond
IPST

A Sensor for Non-Contact Monitoring of Paper Elastic Properties During Manufacture

Wednesday - May 5th

Open Sessions

	8:00 AM	8:30 AM	9:00 AM	9:30 AM
Session 67: Innovations in Emissions Control	Michael Milota Oregon State University Preliminary Work on VOC and HAP Recovery Using Ionic Liquids	Alexander Fridman Drexel University Pulsed Corona Plasma Technology for Treating VOC Emissions from Pulp Mills	Bruce Bryan Gas Technology Institute Development of Reburning Technology for Combustion Improvement in Woodwaste-Fired Stoker Boilers	
Session 68: Pulping Optimization	Lucian A. Lucia Institute of Paper Science and Technology Low Capital, High Return Modifications to Kraft Pulping Operations Part II. Effect of Green Liqor on Pulp Carbohydrates	Ulrike Tschirner University of Minnesota Phosphonate as Additives in Kraft Pulping	A.L. Compere Oak Rigde National Laboratory Microwave Pretreatment to Decrease Hardwood Pulping Energy and Chemicals	S. J. Pawell Oak Ridge National Laboratory Use of Electrochemical Noise to Assess Corrosion in Kraft Continuous Digesters
Session 69: Advances in Fiber Recycling	Yulin Deng Georgia Institute of Technology Reducing Fiber Loss in Laboratory- and Mill-Scale Flotation Deinking Using Surfactant Spray Technology	M.K. Ramasubramanian North Carolina State University A Compact, High Speed Lignin Sensor for the Automated Sorting of Newsprint from Mixed Waste	Sujit Banerjee Institute of Paper Science and Technology Spark Technology: Mill Trials	

TAPPI (Open) Sessions

2:30 PM

Session 73-2

S. Mostafa Ghiaasiaan
Georgia Institute of Technology

Characterization of Flow Regimes in Pulp-Water-Gas Three Phase Flows